
Chapter 11—Using the flash boot ROM utility

Introduction

This chapter describes how to use the Flash Boot ROM utility to:

- display a list showing the status and version of the Flash Boot ROMs installed in the system and on the Software Delivery (PCMCIA) card (if it is present)
- upgrade the Flash Boot ROM (the Flash Boot ROM is not automatically upgraded when the software is upgraded)
- restore a Flash Boot ROM

How to use the flash boot ROM utility

Summary of steps

The steps to follow to perform the Flash Boot ROM functions are summarized in the following list. They consist of:

- Checking to make sure the Software Delivery (PCMCIA) card is installed, if one is provided.
- Invoking the Software Installation program.
- Selecting the Utilities function.
- Selecting Flash Boot ROM utility.
- Selecting the desired Flash Boot ROM option.
- Invoking the selected Flash Boot ROM function

Using the Flash Boot ROM Utility

The following procedure describes how to use the Flash Boot ROM utility.

Using Flash Boot ROM Utility

Step	Action						
1	If not previously done, install the PCMCIA card in the socket in the faceplate of the System Core Card. <i>Note:</i> This Software Delivery card must be the same one that was used to upgrade this Option 11C. It must not have been used to upgrade a subsequent Option 11C because the Security ID will no longer match and the “undo” function will fail. To install the Software Delivery card: Insert the Software Delivery card in slot A of the PCMCIA socket located in the faceplate of the NTDK20 System Core card. Gently press on the Software Delivery card until it is firmly seated.						
2	Select the method of invoking the Software Installation Program. There are two methods of invoking the Software Installation Program: - By using the UPGRADE command in Overlay 143 —or— - By pressing the ‘control’ and ‘I’ keys on the keyboard when prompted after the Software Delivery card is installed. <table> <tr> <th>If</th><th>Do</th></tr> <tr> <td>you wish to invoke the program using Overlay 143</td><td>Step 3</td></tr> <tr> <td>you wish to invoke the program when prompted</td><td>Step 4</td></tr> </table>	If	Do	you wish to invoke the program using Overlay 143	Step 3	you wish to invoke the program when prompted	Step 4
If	Do						
you wish to invoke the program using Overlay 143	Step 3						
you wish to invoke the program when prompted	Step 4						
—continued—							

Using Flash Boot ROM Utility (Continued)

Step	Action
3 Invoke the Software Installation Program using Overlay 143.	
Note: Perform this step only when using the Overlay 143 to invoke the Software Installation Program. To invoke the program during a SYSLOAD, skip this step and do Step 4.	
Login to the system by entering LOGI<cr> then proceed with the following:	
Note: The response to PASS? is unique to each system. The response shown below is an example.	
Prompt	Response
PASS?	0000<cr>
.	ID 143<cr>
	UPGRADE<cr>
If	Do
SOFTWARE INSTALLATION PROGRAM message appears	Step 5
SOFTWARE INSTALLATION PROGRAM message does not appear	Repeat Step 3 (this step) and make sure correct information is entered
4 Invoke the Software Installation Program when prompted.	
Note: Perform this step only when invoking the Software Installation Program when prompted after the Software Delivery card is installed. To invoke the program using Overlay 143, disregard this step and do Step 3 instead.	
Invoke a system reload (SYSLOAD) by setting the circuit breaker on the front of the power supply in the main cabinet to OFF then to ON.	
Note: When the FIVE SECONDS TO ENTER CONTROL-I TO INVOKE SOFTWARE INSTALLATION PROGRAM message appears a response must be entered within 5 seconds to invoke the Installer Setup Program.	
During SYSLOAD, the following prompt will appear:	
—continued—	

Using Flash Boot ROM Utility (Continued)

Step	Action				
	<table><tr><th>Prompt</th><th>Response</th></tr><tr><td>FIVE SECONDS TO ENTER CONTROL-I TO INVOKE SOFTWARE INSTALLATION PROGRAM</td><td>Press and hold 'control' key and press 'I'</td></tr></table>	Prompt	Response	FIVE SECONDS TO ENTER CONTROL-I TO INVOKE SOFTWARE INSTALLATION PROGRAM	Press and hold 'control' key and press 'I'
Prompt	Response				
FIVE SECONDS TO ENTER CONTROL-I TO INVOKE SOFTWARE INSTALLATION PROGRAM	Press and hold 'control' key and press 'I'				
5	Select Utilities from the Main Menu.				
	<pre>SOFTWARE INSTALLATION PROGRAM ***** Verify Security ID: 12345678 ***** Software Installation Main Menu 1. New System Installation or Option 11/11E Upgrade - From Software Daughterboard 2. System Upgrade 3. Utilities 4. New System Installation - From Software Delivery Card [q]uit, [h]elp or [?], <cr> - redisplay</pre>				
	<table><tr><th>Prompt</th><th>Response</th></tr><tr><td>Enter Selection:</td><td>3<cr></td></tr></table>	Prompt	Response	Enter Selection:	3<cr>
Prompt	Response				
Enter Selection:	3<cr>				
	—continued—				

Using Flash Boot ROM Utility (Continued)

Step	Action				
6	Select item 7 from the Utilities Menu.				
	Utilities Menu: 1. Restore Backed Up database 2. Archive Customer defined databases 3. Install Archived database 4. Review Upgrade Information 5. Clear Upgrade Information 6. Undo Installation 7. Flash Boot ROM Utilities 8. Current Installation Summary [q]uit, <cr>current menu, [m]ain, [p]revious menu,				
	<table> <tr> <th>Prompt</th><th>Response</th></tr> <tr> <td>Enter Selection:</td><td>7<cr></td></tr> </table>	Prompt	Response	Enter Selection:	7<cr>
Prompt	Response				
Enter Selection:	7<cr>				
7	Select an option from the Flash Boot ROM Utilities menu.				
	Flash Boot ROM Utilities Menu: 1. List Flash Boot ROM 2. Upgrade Flash Boot ROM 3. Restore Flash Boot ROM [q]uit, <cr>current menu, [m]ain, [p]revious menu,				
	<table> <tr> <th>Prompt</th><th>Response</th></tr> <tr> <td>Enter Selection:</td><td> 1<cr>(List Flash Boot ROM) 2<cr>(Upgrade Flash Boot ROM) 3<cr>(Restore Flash Boot ROM) </td></tr> </table>	Prompt	Response	Enter Selection:	1<cr> (List Flash Boot ROM) 2<cr> (Upgrade Flash Boot ROM) 3<cr> (Restore Flash Boot ROM)
Prompt	Response				
Enter Selection:	1<cr> (List Flash Boot ROM) 2<cr> (Upgrade Flash Boot ROM) 3<cr> (Restore Flash Boot ROM)				
If	Do				
response was 1<cr>	Step 8				
response was 2<cr>	Step 9				
response was 3<cr>	Step 10				
—continued—					

Using Flash Boot ROM Utility (Continued)

Step	Action
8	Review the Flash Boot ROM summary. The following information is displayed when the 'List Flash Boot ROM' utility is selected in Step 7. - the version of the active Flash Boot ROM - the version of the backup Flash Boot ROM (if it exists) - the version of the Flash Boot ROM residing on the Software Delivery (PCMCIA) card (if it exists) The following are four examples of what might be displayed on the screen. Note: The NTDK31AA product code used for the Flash Boot ROM in the following examples is for illustration purposes only. The actual code may be different. Example 1 The Software Delivery Card (PCMCIA) contains a new version of the Flash Boot ROM. There is also an older backed-up version of the Flash Boot ROM. Flash Boot ROM Summary: Active -- NTDK31AA REL 02 (the version which is active) Backup -- NTDK31AA REL 01 (the previous active version) Software Delivery Card -- NTDK31AA REL 03 (a newer version) (Return to Step 7) Example 2 The Software Delivery Card (PCMCIA) is not installed. Flash Boot ROM Summary: Active -- NTDK31AA REL 02 (the version which is active) Backup -- NTDK31AA REL 01 (the previous active version) Software Delivery Card -- card not installed (Software Delivery not installed) Return to Step 7)
—continued—	

Using Flash Boot ROM Utility (Continued)

Step	Action										
	Example 3 There is no Flash Boot ROM on the Software Delivery Card (PCMCIA). Flash Boot ROM Summary: Active -- NTDK31AA REL 02 (the version which is active) Backup -- NTDK31AA REL 01 (the previous active version) Software Delivery Card -- no Flash Boot ROM on card (no Flash Boot ROM on Software Delivery card) (Return to Step 7)										
	Example 4 The Software Delivery Card (PCMCIA) has the same version as the current active Flash Boot ROM. Flash Boot ROM Summary: Active -- NTDK31AA REL 03 (the version which is active) Backup -- NTDK31AA REL 02 (the previous active version) Software Delivery Card -- NTDK31AA REL 03 (same version as on Software Delivery) (Return to Step 7)										
9	Perform or terminate Flash Boot ROM upgrade.										
	Upgrading Active Boot ROM to NTDK31AA REL 03 System Restart required to activate Flash Boot ROM upgrade. *** WARNING *** A system restart will be invoked as part of the Flash Boot ROM Upgrade.										
	<table> <tr> <th>Prompt</th><th>Response</th></tr> <tr> <td>Are you sure you wish to perform the Flash Boot Upgrade?</td><td>n<cr> (no) y<cr> (yes)</td></tr> <tr> <th>If</th><th>Do</th></tr> <tr> <td>response was y<cr></td><td>— End —</td></tr> <tr> <td>response was n<cr></td><td>Step 5</td></tr> </table>	Prompt	Response	Are you sure you wish to perform the Flash Boot Upgrade?	n<cr> (no) y<cr> (yes)	If	Do	response was y<cr>	— End —	response was n<cr>	Step 5
Prompt	Response										
Are you sure you wish to perform the Flash Boot Upgrade?	n<cr> (no) y<cr> (yes)										
If	Do										
response was y<cr>	— End —										
response was n<cr>	Step 5										
	—continued—										

Using Flash Boot ROM Utility (Continued)

Step	Action										
10	Perform or terminate Flash Boot ROM restore. Restoring Flash Boot ROM to NTDK31AA REL 01 System Restart required to activate restored Flash Boot ROM. *** WARNING *** A system restart will be invoked as part of the Flash Boot ROM Restore. <table> <tr> <th>Prompt</th><th>Response</th></tr> <tr> <td>Are you sure you wish to perform the Flash Boot Restore?</td><td>n<cr> (no) y<cr> (yes)</td></tr> <tr> <th>If</th><th>Do</th></tr> <tr> <td>response was y<cr></td><td>— End —</td></tr> <tr> <td>response was n<cr></td><td>Step 5</td></tr> </table>	Prompt	Response	Are you sure you wish to perform the Flash Boot Restore?	n<cr> (no) y<cr> (yes)	If	Do	response was y<cr>	— End —	response was n<cr>	Step 5
Prompt	Response										
Are you sure you wish to perform the Flash Boot Restore?	n<cr> (no) y<cr> (yes)										
If	Do										
response was y<cr>	— End —										
response was n<cr>	Step 5										
—End—											

Meridian 1

Option 11C

Software Installation Program Guide

© 1996 Northern Telecom

All rights reserved

Information is subject to change without notice.

Northern Telecom reserves the right to make changes in design or components as progress in engineering and manufacturing may warrant. This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the FCC rules.

Meridian 1 is a trademark of Northern Telecom.

Publication number: 553-3021-310

Document release: Standard 1.0

Date: September 1996

Printed in Canada